



## 900MHz Bidirectional Amplifier

Item # SHR90307

The latest version of 900MHz with 17dB Tx gain. Ideal for use in systems where strong Rx gain is needed.

With 17dB Tx gain all insertion losses are recovered and a small push applied on the Tx side while staying within legal limits. The Rx side gets a full 16dB of gain, improving the receive sensitivity by many folds.

The receive side is fitted with 902~928MHz band pass filter.

A highly efficient amplifier that consumes only 45mA of power during Rx mode. It can be powered via regulated 5V DC or unregulated 6~12V DC. The unit comes with a 6V DC power supply.

### Salient features include:

- 2Watt peak output power
- 17dB Tx gain, 16dB Rx gain
- High-speed switching between Tx/Rx for all data rates.
- Highly efficient in power consumption
- Made in the USA



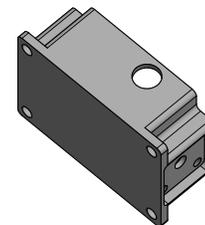
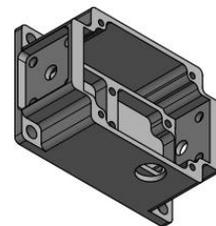
### The complete set includes:

- The amplifier
- Universal power supply (110~240VAC to 6 V DC)
- RP SMA Male to N-Male cable

## Specifications

### Electrical:

Operating Range	902 - 928 MHz (863~870 MHz optional)
Operating Mode	TDD, Time Division duplex,
Transmit Power	1- 2W (33dBm)
Transmit Gain	17 dB
Transmit input Power	0dB min +/- 1 (trigger point) 27 dB max
Receive Gain	16 dB
Switching Speed	Less than 1us
Noise Figure	0.9 dB
LED indicators	Red for Receive Green for Transmit
Power Consumption @ 6V DC	Rx: 30mA, Tx: 800mA,
Operating Temp	-40 °C to + 70 °C



### Mechanical:

Dimensions	2.55" x 1.35 (including connectors)
RF connectors	N Females
DC input	Via DC Jack 2.5mm
Weight	2 Oz